Single Integrated Air Picture (SIAP)

DESCRIPTION

SIAP is the air component of the Common Tactical Picture that is generated and distributed by the various sensors and C2 systems that make up the Joint Data Network (JDN). This program funds the integration of software and other coordinated support to ensure all applicable Marine Corps systems meet the Joint Requirements Oversight Council validated requirements for the development of a SIAP capability. Current Marine Corps sensors that contribute to a SIAP are the AN/TPS-59, AN/TPS-63, and the AN/TPS-73 radars. Current C2 systems are the AN/TYQ-23 Tactical Air Operations Module, Communication Data Link System, the AN/TSQ-131 Command and Control Sub-System, and the Air Defense Communications Platform. Future systems include the CAC2S, CLAWS, G/ATOR, and HELRASR. SIAP is shared through the components of the Joint Tactical Information Data System, also known as TADIL J, which feeds the JDN. Sensor data will be shared among systems implementing the SIAP Integrated Architecture Behavior Model (IABM) via a peer-to-peer network.

OPERATIONAL IMPACT

Planned SIAP improvements will upgrade the capabilities of the Marine Corps's current and future C2 systems and aviation platforms to conduct Integrated Air and Missile Defense (IAMD) operations. Through SIAP's contribution to a more reliable common tactical picture, the MAGTF will significantly improve its ability to employ aviation assets while preventing blue on blue engagements.

PROGRAM STATUS

SIAP is being developed using a spiral development system supported by a series of block improvements. The SIAP Block 0 fixes have been implemented in the Marine Corps' Tactical Air Operations Module. Block 1 engineering tasks will support the development of a model-driven architecture, which will be used to produce an integrated architecture (IA) database. The Joint SIAP System Engineering Organization will use the IABM to produce a common Platform-Independent Model (PIM) that all services will use to develop a platform-specific model for implementation into their open architecture systems. The initial version of the PIM, configuration 05, was released in late FY 2005.

Procurement Profile: Current funding profiles allocate funding through FY 2008 to support the spiral development of the program. POM 08 submissions will address funding through the FYDP.

Developer/Manufacturer: No specific contractor. SIAP-related funds are primarily provided to other supported programs.